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In the Claims:

1. – 17. (canceled)

18.(new) An air treatment device comprising:

a gas or vapor detector comprising a plurality of gas or vapor sensors and at least two sensors which sends the same gas or vapor, the gas or vapor detector comprising means to detect a threshold level or concentration of a gas or vapor, a means to mount a source of air treatment agent to the device, and a means to expel a portion of air treatment agent, upon detection of a gas or vapor by the detector, where a processor unit must receive signals from at least both sensors in order to cause a portion of airborne treatment agent to be expelled.

19.(new) An air treatment device according to claim 1, wherein the mounted source of air treatment agent also passively emanates the air treatment agent.

20.(new) An air treatment device according to claim 1, wherein the means to expel a portion of air treatment agent comprises a heater element and proximity to a diffusion wake, the heater elements being actuated upon detection of a gas or vapor by the detector in order to increase the emanation of the air treatment agent.

21.(new) An air treatment device according to claim 1, wherein the means to mount a source of air treatment agent to the device comprises means to connect a receptacle to the device, the receptacle comprising the air treatment agent.

22.(new) An air treatment device according to claim 1, wherein the detector includes a sensor which detects both a target gas or vapor and a non-target gas or vapor, wherein in order to eliminate explosion of air treatment agent in response to the non-target gas or vapor, the device includes a second sensor which detects the non-target gas or vapor, the processor unit being arranged to prevent the

expulsion of the air treatment agent when the second sensor detects a signal, completely or until the first sensor gives a signal at a higher threshold value than usual.

23.(new) An air treatment device according to claim 1, wherein the detector includes a person detector, and the processor unit allows airborne treatment agent to be expelled, in response to a signal from one or more of the sensors, only when the person detector gives a signal and for an interval thereafter.

24.(new) An air treatment device according to claim 1, wherein the detector comprises a conducting polymer sensor.

25.(new) An air treatment device according to claim 1, wherein the air treatment agent expulsion means comprises a pump or aerosol.

26.(new) An air treatment device according to claim 1, on which is mounted a source of air treatment agent..

27.(new) An air treatment device according to claim 1, wherein the air treatment agent comprises an agent capable of masking, neutralizing or retarding malodor, or unwanted odor.

28.(new) An air treatment device according to claim 1, wherein the air treatment agent comprises a deodorant, an antibacterial agent, a sanitizing agent, a fragrance, a perfume or an anti-allergenic agent.